
**BATTERY MONITORING SYSTEM FOR
AN IMPLANTABLE MEDICAL DEVICE**

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Abstract of the Disclosure

An implantable cardiac device, such as a pacemaker, provided with a carbon monofluoride (CF_x) battery. The CF_x battery enables replacement of the typical voltage tripler with a voltage doubler and eliminates the need for a bulky decoupling capacitor. The device includes a precision A/D and voltage monitor to enable more accurate prediction of impending battery end-of-life. Several methods of accurately determining a pending end-of-life of a battery with a flat voltage output throughout discharge, such as a CF_x battery, are provided.

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